

US-PAT-NO: 5783511
DOCUMENT-IDENTIFIER: US 5783511 A
TITLE: Process for selecting raw material and
making a
bleaching clay

----- KWIC -----

Detailed Description Text - DETX (31):
A sample of 0.200.+-0.005 g air dried bleaching clay
product was suspended
to 20 ml distilled water to form a 1 % suspension and
equilibrated for 20
minutes before the measurement of suspension pH. A 20 ml
sample of the water
extract from a 1% clay suspension was used for the
measurement of solution pH.
The suspension and the solution aliquots were placed in a
temperature
controlled water bath maintained at 25.+-0.1 degrees Celsius
and titrated with
calibrated 0.01N NaOH and 0.1N NaOH solutions using a Dosimat
titrator. The
base addition rate was in the range of 0.1-0.6 ml/min and
0.01-0.2 ml/min for
the 0.01N and 0.1N NaOH solutions, respectively. The rate
was selected
depending on the sample acidity, and was kept constant
throughout each
titration. The 0.1N NaOH solution was used for H._{sub.2}
SO._{sub.4} added at 7.5
and 10 weight percent. When using the slowest rate to
titrate high-acidity
clay, the titration took about 10 hours, compared to the
usual duration of
15-25 minutes. At least two replicate titrations were
conducted for each clay.
The experimental error was generally less than 5% for
titration volumes larger
than 0.3 ml base.